

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 17-4 PH / S17400 / TYPE 630 SS ROUND BAR
GRAIN MUST BE ALONG LENGTH OF BAR

SPECIFICATION: AMS 5643 OR ASTM A564

HEAT TREATMENT: CONDITION A: AS SUPPLIED / NO HEAT TREATMENT
CONDITIONS H900 TO H1150 PER AMS 2759/3 OR ASTM A564

PART NUMBER: M17-4-|HHHHH-| R |X.XXX| WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND O.D. X.XXX = DIAMETER IN INCHES

MATERIAL CONDITION TABLE:

CODE	CONDITION	HARDNESS (HRC)	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)
(OMITTED)	H1025	34-47	100	150
H900	H900	40-47	170	190
H925	H925	38-45	155	170
H1025	H1025	34-42	145	155
H1075	H1075	31-38	125	145
H1100	H1100	30-37	115	140
H1150	H1150	28-37	105	135
CONDA	CONDITION A (SOLUTION TREATED)	38 MAX	-	-

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

FOR DWGS THAT CALL FOR "UTS = 150 KSI, MIN YTS = 100 KSI" (IE. CODE "OMITTED" IN TABLE), HEAT TREAT TO H1025 CONDITION. H900 OR H925 CONDITION MATERIAL MAY BE SUBSTITUTED.

EXAMPLES:

PART	PART NUMBER
4.000" DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI	M17-4-R4.000
2.500" DIAMETER BAR H900 CONDITION	M17-4-H900-R2.500
3.250" DIAMETER BAR H1025 CONDITION	M17-4-H1025-R3.250
0.750" DIAMETER BAR A CONDITION	M17-4-CONDA-R0.750

RELEASED

2021 DEC 10
HB ECR 353

APPROVED

D	D	ADD HEAT TREAT SPECS, ADD HARDNESS, ADD CONDITIONS FOR "OMITTED" P/N SUFFIX (ECR 352)	CP	21.12.03
	C	ADDED MATERIAL CONDITION (CIR17-107)	NO	17.09.14
	B	REFORMAT DWG, S17400/TYPE 630 ADDED TO PURCHASE MATERIAL (ZN D8-1), ADD A564 SPEC (C8-1), REF PAR 08-020A	VS	10.05.20
	A	NEW ISSUE	CP	05.03.16
	REV.	DESCRIPTION		BY
DESIGN	NO	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	CP			
CHECKED	SAD	DRAWING NO. REV. D		
MFG. APPR.	SH	M17-4-R SHEET 1 OF 1		
APPROVED	CP	TITLE SCALE		
DE APPR.	CP	17-4 SS ROUND BAR NTS		
DATE	21.12.03	COPYRIGHT © 2005 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.		